

AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the application.

1. – 10. (cancelled)
11. (previously presented) A shearwall, comprising:
- a central diaphragm, including:
 - a top edge and a bottom edge generally defining a height of said central diaphragm,
 - first and second ends, extending between the top and bottom edges, generally defining a width of said central diaphragm, and
 - a corrugated section extending partially between said top edge and said bottom edge in between said first and second ends, said corrugated section forming at least one corrugation, said at least one corrugation extending from said bottom edge and terminating at a position between said bottom edge and said top edge.
12. – 13. (cancelled)
14. (currently amended) A shearwall for a wall of a building, comprising:
- a central diaphragm, including
 - a top edge and a bottom edge generally defining a height of said central diaphragm,
 - first and second ends, extending between the top and bottom edges, generally defining a width of said central diaphragm, said height being at least twice as long as said width,
 - a corrugated section extending at least partially between said top edge and said bottom edge in between said first and second ends, said corrugated section forming at least one corrugation; and
 - at least one embossment.
15. (currently amended) A shearwall for location within a wall of a building, comprising:

a central diaphragm, including

a top edge and a bottom edge generally defining a height of said central diaphragm,

first and second ends, extending between the top and bottom edges, generally defining a width of said central diaphragm,

a corrugated section extending at least partially between said top edge and said bottom edge in between said first and second ends, said corrugated section forming at least one corrugation; and

at least one stiffening lip.

16. (cancelled)

17. (currently amended) A shearwall, comprising

a central diaphragm having a height, width and depth, each being perpendicular to each other, and a corrugation extending in the direction of said height of said central diaphragm;

first and second wooden chords affixed to said central diaphragm at opposed edges of said central diaphragm and extending in the direction of said height of said central diaphragm;

a sill plate affixed to a bottom of the shearwall, said sill plate having a footprint at least as large as said central diaphragm and said first and second chords together; and

a channel in which said central diaphragm resides.

18. (original) A shearwall as recited in claim 17, said sill plate having a width greater than that of said channel.

19. -24. (cancelled)

25. (currently amended) A shearwall for a wall of a building comprising:

a central diaphragm having a top edge and a bottom edge defining a height of said central diaphragm, first and second end sections defining a width of the central diaphragm, and a front plane and a rear plane defining a depth of said central diaphragm, said central diaphragm including:

a pair of rear planar sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said first and second end sections, said pair of rear planar sections having a surface residing generally in said rear plane,

a pair of angled sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said pair of rear planar sections, said pair of angled sections extending from said rear plane toward said front plane and angling toward each other,

a front planar section extending at least part way between said top and bottom edges and being adjacent said pair of angled sections, said front planar section having a surface residing generally in said front plane; and

first and second chords affixed one each to said first and second end sections.

26. – 37 (canceled)

38. (currently amended) A shearwall for use in a building comprising:

a central diaphragm having a top edge and a bottom edge defining a height of said central diaphragm, first and second end sections defining a width of the central diaphragm, the height being at least twice as long as the width, and a front plane and a rear plane defining a depth of said central diaphragm, said central diaphragm including:

a pair of rear planar sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said first and second end sections, said pair of rear planar sections having a surface residing generally in said rear plane,

a pair of angled sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said pair of rear planar sections, said pair of

angled sections extending from said rear plane toward said front plane and angling toward each other,

a front planar section extending at least part way between said top and bottom edges and being adjacent said pair of angled sections, said front planar section having a surface residing generally in said front plane;

first and second side structural members formed one each on said first and second end sections; and

first and second edge structural members formed one each on said top edge and a bottom edge.

39. (previously presented) A shearwall as recited in claim 38, wherein the first and second structural members are chords.

40. (previously presented) A shearwall as recited in claim 38, wherein the one of the first or second edge structural members sits within a channel.

41. (previously presented) A shearwall as recited in claim 40, wherein the channel is mounted to a sill plate.

42. (previously presented) A shearwall comprising:

a first member extending in the length direction between a top and bottom of the shearwall;

a second member extending in the length direction between the top and bottom of the shearwall;

a central diaphragm welded to the first and second members, the central diaphragm having a top edge and a bottom edge defining a height of said central diaphragm, first and second end sections defining a width of the central diaphragm, and a front plane and a rear plane defining a depth of said central diaphragm, said central diaphragm including:

a pair of rear planar sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said first and second end sections, said pair of rear planar sections having a surface residing generally in said rear plane,

a pair of angled sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said pair of rear planar sections, said pair of angled sections extending from said rear plane toward said front plane and angling toward each other,

a front planar section extending at least part way between said top and bottom edges and being adjacent said pair of angled sections, said front planar section having a surface residing generally in said front plane.